



UNITED STATES PATENT AND TRADEMARK OFFICE

[Signature]
UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/506,302	09/01/2004	Hiroyuki Ishihara	89277-0039	3222

26021 7590 11/03/2006

HOGAN & HARTSON L.L.P.
1999 AVENUE OF THE STARS
SUITE 1400
LOS ANGELES, CA 90067

EXAMINER

NGUYEN, HANH N

ART UNIT	PAPER NUMBER
2834	

DATE MAILED: 11/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/506,302	ISHIHARA ET AL.	
	Examiner	Art Unit	
	Nguyen N. Hanh	2834	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 August 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 7-26 is/are pending in the application.
- 4a) Of the above claim(s) 26 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 7-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 7-25 in the reply filed on 8/7/2006 is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

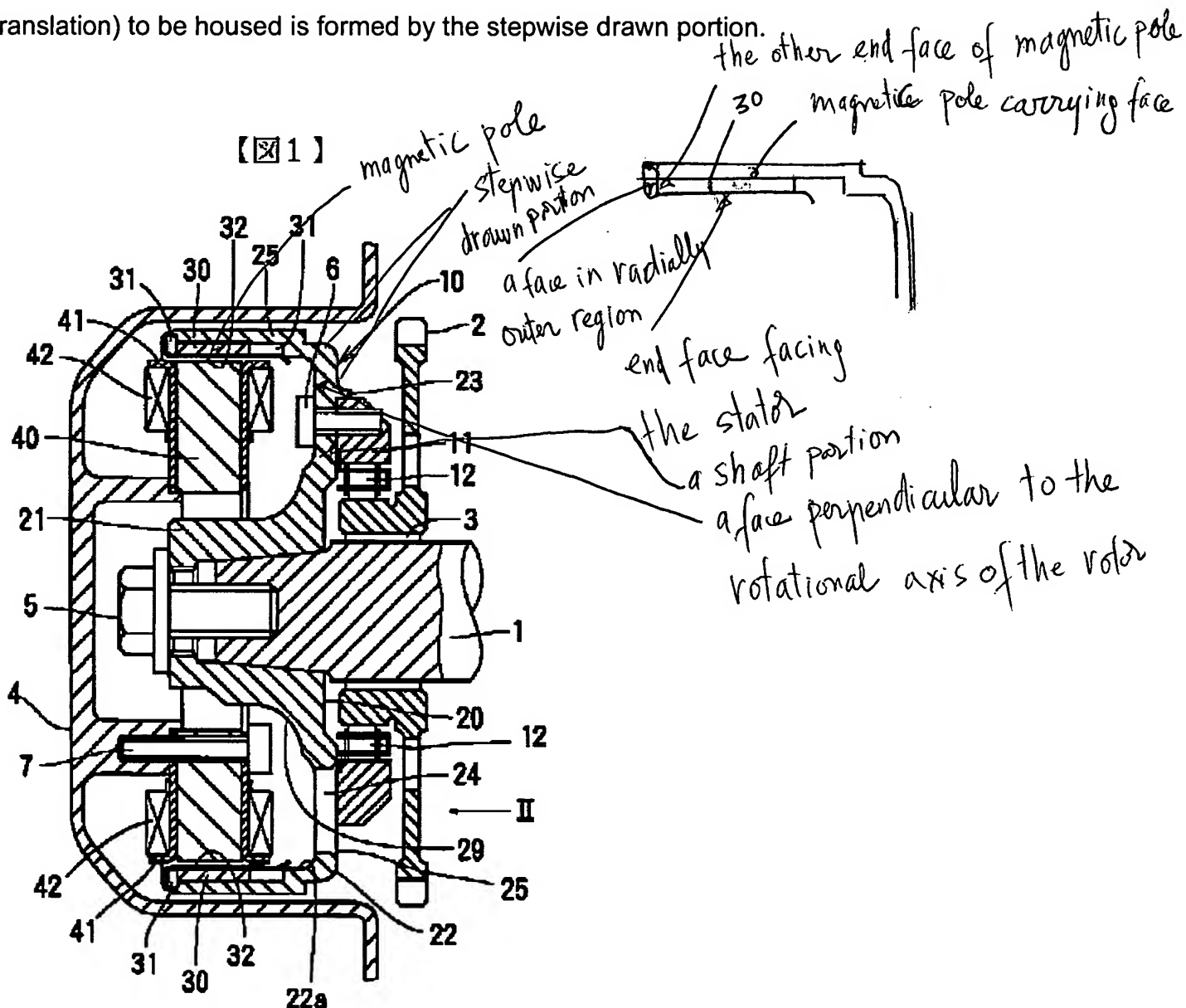
A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 7-12, 14-17 and 20-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Kimura (JP 2001-045686 A).

Regarding claim 7, Kimura discloses a rotary electric machine comprising: a stator (40 in Fig. 1); magnetic poles having one end face facing the stator; and a rotor having the magnetic poles and rotated by electromagnetic energy from the stator, wherein the rotor includes: a face in its radially outer region to which the other end faces of the magnetic poles are attached; a stepwise drawn portion concentric with the one end face; and a shaft portion located on its rotational axis, wherein the face in the radially outer region of the rotor is formed perpendicular to the rotational axis of the rotor, and a face perpendicular to the rotational axis of the rotor is formed in the stepwise drawn portion or the shaft portion (please see markups).

Regarding claims 8 and 22, Kimura also discloses a rotary electric machine wherein a space for a one-way clutch (11 as described in paragraph 0010 of the translation) to be housed is formed by the stepwise drawn portion.



Regarding claim 9, Kimura also discloses a rotary electric machine wherein a magnetic pole-carrying face, the stepwise drawn portion and the shaft portion are formed integral with each other.

Regarding claim 10, Kimura also discloses a rotary electric machine wherein a female thread is formed in the perpendicular face (by bolt 6).

Regarding claim 11, Kimura also discloses a rotary electric machine wherein the female thread is formed on the rotational axis (21).

Regarding claim 12, Kimura also discloses a rotary electric machine wherein the female thread is formed in a plurality around the rotational axis at regular intervals.

Regarding claims 14 and 23, Kimura also discloses a rotary electric machine wherein the stator (40) includes a plurality of coils (42).

Regarding claims 15 and 24, Kimura also discloses a rotary electric machine wherein the stator is fixed (40 in Fig. 1).

Regarding claims 16 and 25, Kimura also discloses a rotary electric machine wherein the shaft portion (21 in Fig. 1) is cylindrical.

Regarding claim 17, Kimura also discloses a rotary electric machine wherein the plurality of coils (42) includes a core (40) and a winding.

Regarding claim 20, Kimura also discloses a rotary electric machine wherein the one-way clutch is press-fitted in a space of a yoke (inside the wall 23 as shown in Fig. 1) having a bearing (1) press-fitted in the shaft portion.

Regarding claim 21, Kimura also discloses a rotary electric machine comprising: a stator (40); a rotor (20) rotated by electromagnetic energy from the stator; wherein the rotor has in its radially outer region magnetic pole-carrying face, a stepwise drawn portion concentric with the magnetic pole-carrying face, and a shaft portion (please see markups), on a rotational axis of the rotor, formed in its radially inner region, the

Art Unit: 2834

shaft portion or the stepwise drawn portion being formed with a face perpendicular to the rotational axis; and a female thread formed in the perpendicular face.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kimura in view of Takase

Regarding claim 13, Kimura shows all limitations of the claimed invention except showing a rotary electric machine wherein the stepwise drawn portion is pressed against a bearing on the stator into which the shaft portion is inserted.

However, Takase discloses a rotary electric machine wherein the stepwise drawn portion is pressed against a bearing on the stator into which the shaft portion is inserted (Fig. 2) for the purpose of reducing cost (abstract).

Since Kimura and Takase are in the same field of endeavor, the purpose disclosed by Takase would have been recognized in the pertinent art of Kimura.

It would have been obvious at the time the invention was made to a person having an ordinary skill in the art to modify Kimura by forming the stepwise drawn portion pressing against a bearing on the stator into which the shaft portion is inserted as taught by Kimura for the purpose of reducing cost.

4. Claims 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kimura in view of Mizutani.

Regarding claim 18, Kimura shows all limitations of the claimed invention except showing a rotary electric machine wherein the core and the winding are disposed in a circle and molded with a resin.

However, Mizutani discloses a rotary electric machine wherein the core and the winding are disposed in a circle and molded with a resin (Fig. 1) for the purpose of improving cooling of the machine (Col. 4, lines 5-9).

Since Kimura and Mizutani are in the same field of endeavor, the purpose disclosed by Mizutani would have been recognized in the pertinent art of Kimura.

It would have been obvious at the time the invention was made to a person having an ordinary skill in the art to modify Kimura by disposing the core and the winding in a circle and molding with a resin as taught by Mizutani for the purpose of improving cooling of the machine.

Regarding claim 19, Mizutani also discloses a rotary electric machine in his prior art the stator includes an encoder board (Col. 2, lines 57-64).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh N Nguyen whose telephone number is (571) 272-2031. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg, can be reached on (571) 272-2044. The fax phone

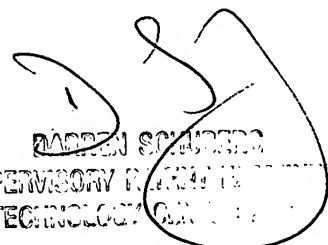
Art Unit: 2834

numbers for the organization where this application or proceeding is assigned are (571) 273-8300 for regular communications and (571) 273-8300 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

HNN

October 18, 2006


DARRIN SCHWARTZ
SUPERVISORY PERSONNEL
TECHNOLOGY CENTER